

Abstract of the Disclosure

An optical system for an optical disc drive includes a light source, an objective lens and a collimator lens. The light source emits first and second light beams. The first light beam is for reproducing data from a digital versatile disc while the second light beam is for a compact disc. The objective lens is provided with a diffraction structure which is designed to focus the first light beam on a recording layer of the digital versatile disc and the second light beam on a recording layer of the compact disc. The collimator lens is disposed between the light source and the objective lens. The collimator lens adjusts the diverging/converging angle of the first and second light beams entering the objective lens. The change in spherical aberration of the first light beam caused by wavelength deviation from a design wavelength due to individual specificity of the light source is corrected by adjusting the diverging/converging angle of the first light beam emerging from the collimator lens.